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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,103	04/21/2005	Kunio Atago	NIWA	3931
7:	590 07/07/2006		EXAMINER	
James C Wray			PHAN, RAYMOND NGAN	
Suite 300 1493 Chain Bridge Road			ART UNIT	PAPER NUMBER
McLean VA 22101			2111	

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/532,103	ATAGO, KUNIO				
Office Action Summary	Examiner	Art Unit				
	Raymond Phan	2111				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI 7 CFR 1.136(a). In no event, however, may a ation. ry period will apply and will expire SIX (6) MOI by statute, cause the application to become A	CATION. reply be timely filed VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
 1) Responsive to communication(s) filed of 2a) This action is FINAL. 3) Since this application is in condition for closed in accordance with the practice of the condition of the condition of the closed in accordance with the practice of the condition of the co	☑ This action is non-final. allowance except for formal mat					
Disposition of Claims						
4) ☐ Claim(s) 1-4 is/are pending in the application 4a) Of the above claim(s) is/are versions 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction. Application Papers	vithdrawn from consideration.					
• • • • • • • • • • • • • • • • • • • •						
 9) The specification is objected to by the Entropy 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by 	accepted or b) objected to n to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). i(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTC Paper No(s)/Mail Date <u>04212005</u>. 	-948) Paper No	(s)/Mail Date Informal Patent Application (PTO-152)				

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Part III DETAILED ACTION

Notice to Applicant(s)

- 1. This application has been examined. Claims 1-4 are pending.
- 2. The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2111.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicants Admitted Prior Arts (hereinafter AAPA) in view of Abbondanzio et al. (US No. 6,931,568).

In regard to claims 1, 4, AAPA disclose a control system comprising: a system controller (i.e. first CPU board) comprising a bus arbiter 12 and a non-volatile memory 16 (see figure 5, para 8); a bus employing a center arbitration method, from which devices can be detached and to which the detached devices can be attached again as power being supplied (see figure 5, paras 5-8); and a plurality of CPU boards which execute the same processes synchronously (see figure 5, para 5-8). But AAPA do not disclose having only periodically executed

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functions and passive functions; wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of a hardware structure of the system such that when one of said CPU boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board according to a requirement from said other CPU board; and even if one of the CPU board is down, the system is restored by detaching said down CPU board from said bus and attaching said detached CPU board to said bus again as power for the whole system being supplied. However Abbondanzio et al. disclose management module 120 having only periodically executed functions and passive functions (see col9, line 57 through col. 10, line 48); wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of a hardware structure of the system such that when one of said CPU boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board according to a requirement from said other CPU board (see figure 6, col. 9, line 57 through col. 10, line 47); and even if one of the CPU board is down, the system is restored by detaching said down CPU board from said bus and attaching said detached CPU board to said bus again as power for the whole system being supplied (see figure 6, col. 10, lines 3-47). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

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In regard to claim 2, Abbondanzio et al. disclose a duplex power source system having a plurality of power sources, wherein: even if one of the CPU boards or power sources is down, the system is restored by detaching said down CPU board or said down power source from said bus and attaching said detached CPU board or said detached power source to said bus again as power for the whole system being supplied (see col. 4, lines 49-65). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

In regard to claim 3, Abbondanzio et al. disclose a duplex IO board system having a plurality of IO boards, wherein: said system controller control the system to continue processes only by periodically executed functions and passive functions of the hardware structure of the system such that when one of said CPU boards or one of said IO boards on said bus is down while accessing to said non-volatile memory, said system controller assigns the right to use said bus to other CPU board or other IO board of said duplex IO board system according to a requirement from said other CPU board or said other IO board; and even if either one of the CPU boards, the IO boards or the power sources is down, the system is restored by detaching said down CPU board, down IO board or down power source from said bus and attaching said detached device to said bus again as power for the whole system being supplied (see figure 3, col. 5, line 64 through col. 6, line 52). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Abbondanzio

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et al. within the system of AAPA because it would enable the redundant processors and solution not substantially increase the cost and complexity of the system.

Conclusion

- 6. All claims are rejected.
- 7. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

Cepulis et al. (US No. 6,463,550) disclose a computer system implementing fault detection and isolation using unique ID code stored in non-volatile memory.

Abbondanzio et al. (US No. 6,883,125) disclose a logging insertion/removal of server blades in a data processing system.

Franke et al. (US No. 6,976,112) disclose an apparatus, method and program product for automatically distributing power to modules inserted in live chassis.

Shinohara et al. (US No. 6,321,284) disclose a multiprocessor system with multiple memory buses for access to shared memories.

Bottom (US No. 6,950,895) discloses a modular server architecture.

Yang et al. (US Pub No. 2004/0024831) disclose a blade server management system.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Raymond Phan, whose telephone number is (571) 272-3630. The examiner can normally be reached on Monday-Friday from 6:30AM- 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632 or via e-mail addressed to mark.rinehart@uspto.gov. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [raymond.phan@uspto.gov].

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All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see hop://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 central telephone number is (571) 272-2100.

MARK H. RINEHART SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

Raymond Phan June 23, 2006